TELPOX F200

Two-component epoxy single coat /spatula/ for mineral surfaces

Composition

Mixture of pigments and fillers in solution of low molecular epoxy resin with addition of additives.

Characteristics and use

The paint is determined to protect very demandingly exposed mineral floors. It is suitable to use it as a spatula. It is not suitable for coating of glazed or monolithic concrete surfaces. Coating with paint TELPOX F200 is resistant to influence of many chemical substances, humidity and mechanical wearing. The coat is not resistant to environmental effects, due to weather the premature flouring of surface can occur.
The paint is mixed with the hardener properly in specified ratio before use and mix thoroughly. The final properties of coat are achieved after complete maturing ca. 7 days, but walkable and recoatable after 24 hours, touch dry after 6 hours. If the coat is not fully hardened, it must not be treated mechanically or chemically.

- ♦ excellent adhesion to concrete and other mineral surfaces
- ♦ high chemical and mechanical resistance
- ♦ resistant to petroleum products and cleaning agents
- ♦ suitable for the tinting system HOSTEMIX
- ♦ during the curing process does not change the volume
- ♦ possibility to apply it in any coat
- ♦ suitable for indirect food contact
- ♦ TELPOX F200 meets the requirements on anti-slip surfaces when dry

Application area

Concrete floors - stores, factories, cellars, garages, terraces, patios, balconies, washable surface of walls.

Shades

Recommended and guaranteed tinted shades in system HOSTEMIX:
RAL - 1001, 1015, 1021, 1034, 2011, 3020, 5015, 5024, 6019, 6021, 6027, 7001, 7004, 7024, 7032, 7035, 7040, 7044, 9001. The others according to individual customer requirements.

Physical properties

Flow time	very viscous liquid
Weight solids	≥ 92 % (not hardened mixture)
Weight solids	≥ 95 % (hardened mixture)
Volume solids	≥ 93 % (hardened mixture)
Flash point	120 °C
Density	1400 - 1500 kg/m^3 (not hardened product)
Density	1300 - 1400 kg/m^3 (hardened mixture)

Emission limits

VOC: < 0.07 kg/kg of hardened mixture	TOC: < 0.05 kg/kg of hardened mixture
Product subcategory: A/j	Threshold value (2010): 500 g/l
Max. VOC content in ready to use state: 499 g/l	

Properties of cured coat

Hiding power	degree 1-2
Gloss / 60°	at least 90
Hardness / Persoz /	up 35 % in 5 days
Water-vapour transmission properties	V3 – low (≤ 15 g/(m2.d) (EN ISO 7783)
Liquid water permeability	w3 – low (≤ 0,1 kg/ (m^2.h^{0,5}) (EN 1062-3)
Surface finish adhesion of building structures to the base	4 MPa (EN 1542)
Slip/skid resistance of a surface	complies with requirements

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hostemix®

Chemical resistance of cured coat

Medium	Resistance to liquids / EN ISO 2812-1/
30 % NaOH	resistant
36 % HCl	resistant / short term exposure /
38 % H_2SO_4	resistant / short term exposure /
30 % H_2O_2	resistant / short term exposure /
Diesel	resistant
Gasoline 98	resistant / short term exposure /
Gasoline 95	resistant / short term exposure /
Hydraulic oil	resistant
Engine oil	resistant
Gear oil	resistant
Cooling liquid	resistant
Acetone	resistant
Xylene	resistant

Drying time

Surface temperature	23 °C	23 °C
Dust free	6 h	6 h
Dry through	12 h	12 h
Dry film thickness DFT	200 µm	1 mm

Spreading capacity

Wet film thickness WFT	200 µm	1 mm	3 mm
Dry film thickness DFT	190 µm	930 µm	2800 µm
Theoretical spreading capacity	0.29 kg /m^2	1.46 kg /m^2	4.35 kg /m^2
Theoretical spreading capacity	3.5 m^2/kg	0.69 m^2/kg	0.23 m^2/kg

Thinning

TELSOL POX, BALTECH S6300 (only for penetration and cleaning tools)

Hardening

Hardener: TELHARD POX F
Mixing ratio: TELPOX F200 – **100** weight parts : TELHARD POX F – **25** weight parts.
The pot life of the hardened mixture is 8 hours / 23 °C.
Mixing ratio: TELPOX F200 – **100** volume parts : TELHARD POX F – **35 volume** parts.
The pot life of the hardened mixture is 40 minutes / 20 °C. The pot life of the mixture for penetration is 60 minutes / 20 °C.

Surface preparation

The performance of this product will depend upon the degree of surface preparation!
Mineral surface must be matured (min. 30 days), compact, free of dust, grease, remains of petroleum products and asphalt and other impurities. The surface must be insulated against moisture. It is ideal to suck a dust with powerful vacuum cleaner. When a water jet cleaning is necessary, it is recommended to leave the substrate to dry thoroughly. In the case of the substrate with larger roughness, it is recommended refinished.

Application conditions

Stir the paint properly with a mechanical stirrer before use so that there will be no sediment on the bottom and harden. Dilute for the penetrating primer.
The temperature of the paint itself should be 15-25 °C. If the paint temperature is below 15 °C, a higher dilution is required and this can subsequently cause problems with the formation of a homogeneous paint film and a longer drying time.
Recommended air temperature for application is 15 to 25 °C, relative humidity must not be higher than 75 %. Temperature and relative humidity must be measured in proximity of painted surface. Lower temperature and higher humidity during application and drying markedly slow down drying and maturing of the coat. Lower temperature (both the air and the substrate) and higher relative humidity can also cause the effect commonly refered to as "Amine blush" - creation of white spots (exudates) after prolonged exposure of water on the cured coating film.

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Workflow	***Penetration:*** For penetration it is recommend using TELPOX F 200 ST, that is hardened in 2: 1 ratio with hardener TELHARD POX, and then diluted with TELSOL POX thinner in 2 : 1 ratio (2 parts hardened mixture: 1 part thinner). Alternatively may be used TELPOX F 200. Stir thoroughly TELPOX F 200 throughout the whole volume, add hardener TELHARD POX F, stir thoroughly again and dilute it with thinner TELSOL POX in a weight ratio of 2 parts TELPOX F 200 and 1 part of thinner. The pot life of the mixture is 60 minutes / 20 °C. ***Topcoat:*** Stir thoroughly TELPOX F 200 throughout the whole volume, add the hardener TELHARD POX F and stir thoroughly again throughout. Stir for at least 2 minutes, at low speeds, to avoid unnecessary incorporation of air into the mixture. The pot life of the mixture is 40 minutes / 20 °C. The pot life gets shorter under conditions of higher temperature and higher volume of hardened mixture. The mineral substrate must first be treated with penetrating primer. Where the absorbency of the substrate is extremely high, it is necessary to repeat the penetrating primer to reach smooth nonporous surface. Repeated penetration can be carried out after about 2 hours (method "wet" in the "wet"). The top coat is applied to the primed surface at least 24 and no later than 72 hours after application of the primer, usually in one or two layers (depending on way of application) at temperatures from 10 to 25 °C. Usually the paint is poured onto the primed surface, spread with a spatula (preferably serrated) or is spread by roller with short hair (it is suitable to use the deaerator too). To correct a surface with larger roughness and cracks it is possible to make a mixture by mixing the hardened mixture of paint and dry bulk filler (limestone, quartz sand, etc.) in a volume ratio of about 1: 1 and applied to the dried primer coating. When higher thickness is applied, we recommend adding up to 60% quartz sand to the paint with a particle size of 0.2 - 0.8 mm before hardening (quartz sand can cause slight shade differences). For larger compact areas always use the material from the same batch. Using the same batch can guarantee the same shade of the colour. We recommend mixing the content of the individual cans by homogeneous mixing.
Application	Roller (velour), spatula
Handling	Read the instructions in the Safety Data Sheet before use and follow all safety instructions and regulations. Follow basic hygiene rules. Do not eat, drink or smoke while using this product. Avoid contact with eyes, skin or clothing. Wear protective gloves, eye protection, protective clothing. Ensure effective ventilation of the workplace.
Packing	12 kg (tinted, not hardened product product)
Storability	The product keeps the product qualities 24 months from production date in original closed container. To store in dry storage at the temperature 5 to 25 °C. Non-flammable liquid.
Disposal of packing and waste	Hand over the used, properly empty packing at the collection point of the packing waste. Dispose the packing with the product rest at the place determined by the town for disposal of hazardous waste or hand over to the person authorized for hazardous waste disposal. Further see the product safety data sheet.